

Health Issues – PFC Compounds

Perfluorinated Compounds

INTRO

- Our Region has had experience in dealing with these compounds – C-8 discovered at Dupont Washington Works
 - Since then the national Rule for Unregulated Contaminant Monitoring has uncovered additional water supply places and sites of interest
 - We have roughly 12 locations across 3 states thus far
 - Though a hot issue in Region 3 states, nationally we are only seeing about 1% of the samples and 2% of the systems with hits.
 - UCMR is used to determine what we regulate as MCLs for the future – unlikely to be a national standard soon
 - Have worked in coordination with state and federal hazardous site cleanup programs to address sources where this is known
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- The Unregulated Contaminant Monitoring Rule (UCMR)
 - PFC's were found in only approximately 1% of the samples and 2% of systems nationwide, The UCMR data will be used to determine the need for any additional regulatory provisions, like setting maximum contaminant levels (MCL's). There are no indications that MCL's will be set for these or other contaminants on the UCMR list 3.
 - Nationally, **63 water systems** had one or more wells above the new Heath advisory. In our Region we had 9 water systems identified, using UCMR and other data, but site investigations have shown far more public and private wells impacted. To date we have about **170 private wells and over 20 public wells either offline or on again with GAC treatment.**

A NEW HEALTH ADVISORY IS ISSUED:

- As you know, EPA issued a new life-time health advisory on May 19, 2016, and replaces the existing provisional health advisory for PFOS and PFOA
 - The health advisory sets a combined value of 0.07 ppb (or 70 parts per trillion) for PFOA and PFOS combined. It does not include the potential additive effects of other PFC's that were sampled as part of the UCMR.

- The value sets a 70 year life-time exposure value, to be protective of nursing mothers and infants, and therefore is protective of all other populations and ages.
- The Health Advisory was developed to provide the best available science, to **enable the states and local authorities to make decisions when these chemicals are present in water systems**. As noted earlier, EPA is unlikely to promulgate a health based standard in the near term or ever.
- **The STATE RESPONSE STRATEGIES HAVE INCLUDED:**
 - Ensuring folks have alternate water sources in the near term
 - Making provisions for full GAC treatment of GW sources- holding polluter responsible
 - Addressing the source of contamination where known with appropriate actions
 - WE are thankful for the state and local leads in responses to date – R3 had been an early leader but other states have been active
- **CAN PROVIDE STATE-SPECIFIC STATUS INFORMATION AS YOU NEED IT**
 - D.C. – No impacts identified to date
 - Delaware- 3 water systems impacted with one system back online with treatment, the other wells remain offline.
 - Maryland- No water systems identified to date
 - Pennsylvania- 5 water systems (approximately 16 wells) impacted in Harrisburg, Bucks, and Montgomery Counties
 - Virginia- No large systems identified but one Federal Facility water system is off line at Fentress Naval Air Station near Chesapeake, VA
 - West Virginia- Ongoing investigation in the Washington Works area with DuPont providing new treatment to Vienna and additional investigation of additional water systems in WV and Ohio, also impacts to Martinsburg with an unknown source of PFOS.
- **CURRENT ISSUES: Lab Capacity – NEED MORE CERTIFIED**
 - Few laboratories certified by EPA for UCMR monitoring; certifications due to expire soon. These laboratories are operating at capacity. Some not accepting new contracts.
 - No plans from EPA to continue direct certification of laboratories
 - States can accredit labs for unregulated contaminants through the National Environmental Laboratory Accreditation Program (NELAP)
 - Modifications to Method 537 may also be reliable for drinking water analysis, but QA/QC has not been done.
- **CURRENT ISSUE: Household treatment units.**

- Currently no third party certifications of POE/POU devices exist.
- NSF International plans to create a PFC certification program in the near future and encourage review of various types of point of use and whole house units.
- Units installed by DuPont and federal facilities will have ongoing monitoring to determine their effectiveness.

CURRENT ISSUE: What does the number mean when slightly below the threshold? Water utilities under pressure to remove it,

- **ANY QUESTIONS?**